

**Cell expansion in a time division cellular system using frequency converting repeaters**

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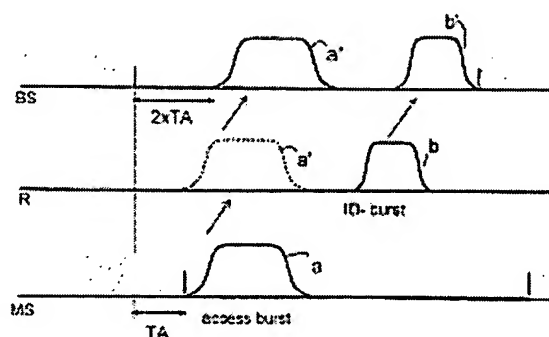
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In a TDMA cellular mobile communications system the radio interface between a mobile station and a base station consists of traffic frames which include several time slots in which in one time slot of an uplink direction frame the mobile stations can transmit in an access burst a request to the network to be assigned a radio connection for traffic. A repeater is added in the system through which the radio connection between the base station and the mobile station can pass, if necessary. The repeater converts the carrier wave frequency used by the base station to the carrier wave frequency used by the mobile station, and the carrier wave frequency used by the mobile station to the carrier wave frequency used by the base station. The repeater adds its own burst to the access burst of the mobile station, the said burst including the information which identifies the repeater.



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